

5 APPARATUS FOR THE DISPLAY OF WEATHER AND TERRAIN INFORMATION ON  
A SINGLE DISPLAY

ABSTRACT OF THE DISCLOSURE

10 A display system having a display screen for graphical display of data, a graphics  
processor for receiving data from at least a terrain data base and data from a weather radar  
and for converting the received data into a single data stream to provide an input data stream  
to the display screen. The single display displays the weather data on one portion of the  
display screen and displays the terrain data on a second portion of the display screen. The  
15 weather data is displayed as a two-dimensional graphic and the terrain data is displayed as a  
three-dimensional graphic, thus providing a user with the necessary flight information while  
keeping processing resources to a reasonable level. The terrain data is displayed as an out the  
window display graphic, and the weather data and the terrain data displays are scaled such  
that the displays are dimensionally juxtaposed to allow rapid recognition of the data by a user  
20 of the display system.